

Title (en)

MICROELECTROMECHANICAL DEVICES USEFUL FOR MANIPULATING CELLS OR EMBRYOS, KITS THEREOF, METHODS OF MAKING SAME, AND METHODS OF USE THEREOF

Title (de)

MIKROELEKTROMECHANISCHE VORRICHTUNG ZUR HANDHABUNG VON ZELLEN ODER EMBRYONEN, KITS DAFÜR, VERFAHREN ZU DEREN HERSTELLUNG UND VERFAHREN ZU DEREN ANWENDUNG

Title (fr)

DISPOSITIFS MICRO-ELECTROMECHANIQUES UTILES POUR MANIPULER DES CELLULES, KITS CONTENANT CES DISPOSITIFS, PROCEDES D'UTILISATION DE CES DERNIERS ET PROCEDES DE FABRICATION ASSOCIES

Publication

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Application

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Abstract (en)

[origin: WO0065137A1] The present invention relates generally to microelectromechanical systems (MEMS) devices for the manipulation of cells or groups of cells, such as oocytes, embryos, and sperm. In particular, the present invention relates to Cell Labeling MEMS devices (2F), Microinjection MEMS devices, IntraCytoplasmic Sperm Injection ("ICSI") MEMS devices, Zona Coring MEMS devices, Enucleation MEMS devices, Enucleation/Nuclear Transfer MEMS devices, and Cytoplasmic Transfer MEMS devices. The present invention also relates to kits containing the MEMS devices of the present invention.

IPC 1-7

D04B 9/20; **D04B 9/00**; **B23P 15/00**; **B44C 1/22**; **C12N 5/00**; **C12N 5/08**; **C12N 11/14**; **C12N 11/08**; **C12N 15/00**; **C12M 1/00**; **C12M 3/00**; **C12M 1/34**; **C12M 1/22**

IPC 8 full level

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IPC 8 main group level

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CPC (source: EP US)

C12M 21/06 (2013.01 - EP US); **C12M 35/04** (2013.01 - EP US); **B01L 3/5027** (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 0065137A1

Citation (examination)

WHEELER, M. B. ET AL: "DEVELOPMENT OF MICROELECTROMECHANICAL SYSTEMS TO ANALYZE INDIVIDUAL MAMMALIAN EMBRYOS: EMBRYO BIOCOMPATIBILITY AND INDIVIDUAL EMBRYO TRANSPORT ON SILICON A CHIP", ARQUIVOS - FACULDADE DE VETERINARIA, UFRGS, UFRGS, vol. 26, no. 1-Sup., 1998, PORTO ALEGRE, BR, pages 391

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